

### 3.11 UTILITIES

This section discusses the major utilities that are found within the State Route 22/West Orange County Connection study area. These utilities include both high-risk and low-risk facilities as described in Caltrans' *Project Development Procedures Manual (PDPM) Appendix LL, Policy on High and Low Risk Underground Facilities Within Highway Rights of Way* (January 1997).<sup>1</sup> Buried electrical and gas utilities identified within the study area have the potential to be either high-risk or low-risk facilities.

#### 3.11.1 Electricity

Southern California Edison (SCE) provides electricity within the SR-22/West Orange County Connection study area. SCE maintains four identified substations within the study area. These substations are located as follows:

- South of SR-22 between Beverly Manor Road and Seal Beach Boulevard in Seal Beach;
- South of SR-22 between Newland Street and Yockey Street in Garden Grove;
- East of Newhope Street and south of SR-22 adjacent to the former Pacific Electric right-of-way in Garden Grove; and
- West of Lewis Street, adjacent to the north side of SR-22 in Garden Grove.

SCE also has a transmission easement that crosses over SR-22, west of Hoover Street in Westminster. In addition, the substation at Lewis Street has several major power poles associated with the facility that are located between SR-22 and the substation.

In conjunction with these major electrical facilities, most of the arterials and some of the local streets in the study area contain either overhead (aerial) or buried electrical lines. A majority of the aerial lines identified within the study area are high-risk facilities. Buried electrical lines located within street right-of-ways also have the potential to be high-risk facilities.

#### 3.11.2 Natural Gas Pipelines

Southern California Gas Company (SCG) provides gas within the SR-22/West Orange County Connection study area. Several high-risk gas lines are located within the study area. Figure 3.11-1 shows the locations of these lines. Also, there are buried gas lines located within most of the arterials and some of the local streets within the study area. These buried lines have the potential to be either high-risk or low-risk facilities. In addition to the high-risk lines identified in Figure 3.11-1 and the gas lines typically found within streets, there are gas lines crossing SR-22 and other freeways throughout the study area that are not associated with roadway crossings. The locations of these gas lines are also shown in Figure 3.11-1. These lines also have the potential to be either high-risk or low-risk facilities.

#### 3.11.3 Water Pipelines

Generally, the water resources division of the public works department for most cities provides water service within the SR-22/West Orange County Connection study area. However, Southern California Water Company provides water service for the cities of Los Alamitos and Stanton.

Water lines are located within the right-of-way of most of the larger city streets within the study area. Water lines are located within most of the streets crossing SR-22 and other freeways in the study area. Other than these water lines, a single pumping station owned by the City of Santa Ana, the Cambridge Street Pumping Station, is the only large-scale water facility located within the study area. The pumping station is located west of Cambridge Street and adjacent to the SR-22 right-of-way.

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<sup>1</sup> Available at Caltrans, District 12.

#### **3.11.4 Sewer Pipelines**

The utilities division of the public works department for most cities maintains sewer utilities within the SR-22/West Orange County Connection study area. Utilities maintained by cities include sewer lines (laterals), manholes, and lift stations. In addition to wastewater, some sewer systems also handle stormwater runoff. These facilities are also maintained by the cities within their jurisdiction. Once wastewater passes through the city's sewer system, the Orange County Sanitation District (OCSD) is responsible for its treatment. OCSD maintains a 1,050-kilometer (650-mile) system of sewer trunklines and two treatment plants within the study area (OCSD, 2000).

Sewer lines are present within most of the major streets in the study area and within the streets crossing SR-22 and the other freeways in the study area. Sewer lines identified within the study area that are not located within the street system are identified in Figure 3.11-1.

#### **3.11.5 Telephone, Cable, and Fiber Optics**

Century Communications, Comcast, Cox Communications, GTE California Inc., Media One, Pacific Bell, and Time Warner Communications provide telecommunication services within the SR-22/West Orange County Connection study area. For the most part, these facilities are located within street right-of-ways. These include both aerial and underground cables within the streets themselves, as well as within the adjacent sidewalks. In addition to these locations, cable lines can also be found in easements between the SR-22 right-of-way line and the backyards of single-family residences. Telecommunication facilities, including underground conduits, above-ground vaults, and cellular towers, located outside of these two locations, are shown in Figure 3.11-1.

**Figure 3.11-1**  
**Utilities**

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